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<u>Claims</u>

- 1. A liquid dispensing system for dispensing liquid on a circuit board comprising:
- a conveyor for transporting the circuit board along a direction of travel to a working position;
 - a liquid dispenser mounted for dispensing liquid on the circuit board when the circuit board is in the working position;
 - a heater mounted under the conveyor when the circuit board is in the working position for heating the circuit board; and
 - a first elongated hollow tube mounted under the heater and having holes oriented so that when a gas is introduced into the first tube, the gas is directed upwardly through the holes, past the heater, and toward the circuit board.
 - 2. The system of claim 1, further comprising a second hollow tube mounted parallel to the first tube and having holes oriented to direct a gas through the holes upwardly past the heater and toward the circuit board.
 - 3. The system of claim 2, wherein the conveyor has first and second parallel rails elongated along a first direction, the rails being movable relative to each other in a second direction transverse to the first direction, the first and second tubes being coupled to move along the second direction with the rails.
- 4. The system of claim 3, further comprising a third hollow tube 25 mounted parallel with and between the first and second tubes.
 - 5. The system of claim 4, wherein the heater includes a plurality of elongated heating tubes mounted in parallel and extending transverse to the direction of travel.
 - 6. The system of claim 5, wherein the holes of the first tube are at locations halfway between pairs of adjacent heating tubes.

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- 7. The system of claims 1, further comprising an air supply coupled to each end of the first tube for providing air at each end.
- 8. The system of claim 1, wherein the first tube is made of black 5 anodized aluminum.
 - 9. The system of claim 1, wherein the heater includes a plurality of heating tubes mounted in parallel and extending transverse to the direction of travel.
 - 10. The system of claim 9, wherein the holes of the first tube are at locations halfway between adjacent heating tubes.
 - 11. The system of claim 1) further comprising a second hollow tube, wherein the heater includes a plurality of elongated heating tubes mounted in parallel and extending transverse to the direction of travel.
 - 12. The system of claim 11, wherein the holes of the first tube are at locations halfway between pairs of adjacent heating tubes.
 - 13. A system for conveying and heating a workpiece comprising:
 a conveyor for transporting the workpiece along a direction of travel;
 a heater mounted on one side of the conveyor for heating the workpiece;
 and
 - a first hollow elongated tube mounted so that the heater is between the workpiece and the first tube, the first tube having a plurality of holes oriented so that when a gas is introduced into the first tube, the gas is directed through the holes, past the heater, and toward the workpiece.
- 30 14. The system of claim 13, further comprising a second hollow tube mounted parallel to the first tube and having holes oriented so that when a gas is introduced into the second tube, the gas is directed upwardly through the holes in the second tube, past the heater, and toward the circuit board.

- 15. The system of claim 14, wherein the conveyor has first and second parallel rails elongated along a first direction, the rails being movable relative to each other in a second direction transverse to the first direction, the first and second tubes being coupled to move along the second direction with the rails.
- 16. The system of claim 13, further comprising an air supply coupled to each end of the tube.
 - 17. A system for heating a workpiece comprising:
 - a support for supporting the workiece in a working position;
 - a heater mounted for heating one side of the workpiece; and
- a first hollow elongated tube mounted so that the heater is between the workpiece and the first tube, the first tube having a plurality of holes oriented so that when a gas is introduced into the first tube, the gas is directed through the holes, past the heater, and toward the workpiece.
- 18. The system of claim 17, wherein the heater includes a plurality of parallel heating tubes and the hollow elongated tube is transverse to the heating tubes.
- 19. The system of claim 18, further comprising a second hollow elongated tube with holes, the second tube being mounted parallel to the first tube.

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